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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q68919

SUSUMU KAYAMA , et al.

Appln. No.: 10/506,547

Group Art Unit: 1773

Confirmation No.: 1319

Examiner: Not Yet Assigned

Filed: September 3, 2004

For: **ULTRAFINE PARTICULATE TITANIUM OXIDE WITH LOW CHLORINE AND LOW RUTILE CONTENTS, AND PRODUCTION PROCESS THEREOF**

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

filings a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations:

- 1) "Hikari Kuriin Kakumei"- A concise explanation can be found at page 2 of the specification.
- 2) "Sanka Chitan Hikari"- A concise explanation can be found at page 2 of the specification.
- 3) JP-10-255863- A concise explanation can be found at page 3 of the specification.
- 4) JP-2000-340269-A concise explanation can be found at the bottom of page 3 of the specification.
- 5) "Titanium Oxide"-A concise explanation can be found at the bottom of page 3 to the top of page 4 of the specification.
- 6) "Ultrafine Particle Handbook"-A concise explanation can be found at page 5 of the specification.
- 7) JP-6-340423-A concise explanation can be found at page 5 of the specification.
- 8) JP 7-316536-A concise explanation can be found at page 5 of the specification.
- 9) JP-3-252315-A concise explanation can be found at page 5 of the specification.
- 10) JP-10-251021-A concise explanation can be found at page 5 of the specification.

Applicants further note that the English-language "Nature" article is discussed at the bottom of page 2 to the top of page 3 of the specification.

INFORMATION DISCLOSURE STATEMENT
U.S. Appln. No.: 10/506,547

ATTY DKT 68919

In addition, Applicant encloses English-language Patent Abstracts of Japan for each of the six listed JP patent documents.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

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Date: October 25, 2005

Substitute for Form 1449 A & B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/506,547
		Confirmation Number	1319
		Filing Date	September 03, 2004
		First Named Inventor	SUSUMU KAYAMA
		Art Unit	1773
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	Q68919
Sheet	1	of	1

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		A. FUJISHIMA, et al. "Hikari Kuriin Kakumei", CMC Publishing Co., Ltd. pp 143-145, 1997	
		K. HASHIMOTO, et al., "Sanka Chitan Hikari shokubai no subete", CMC Publishing Co., pp. 29-31, 1998	
		M. GRAEZEL, "A low-cost, high efficiency solar cell based on dye-sensitized colloidal TiO ₂ films", Nature, vol. 353, pp. 737-740, 1991	
		M. SEINO, "Titanium Oxide", Gihodo Co., p. 129, 1991	
		S. SAITO, "Ultrafine Particle Handbook", Fujitec Corporation p. 388, 1990	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.